Creative NOMAD® II

User Guide
On-line Version

CREATIVE®

Getting Started

Creative® NOMAD® II Player
NOMAD II Manager Software
Creative® Digital Audio Center by MusicMatch™

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If the product is found to be defective, Creative Labs, at its option, agrees to replace or repair the product at no charge except as stated below, provided that you deliver the product with a return material authorization (RMA) number and a dated proof of purchase. If you ship the product to Creative Labs, you must assume the risk of damage or loss in transit. You must use the original container (or the equivalent) and pay the shipping charge.

Creative Labs may replace or repair the product with new or reconditioned parts, and the replaced parts or product become the property of Creative Labs. Creative Labs warrants the repaired or replaced product to be free from defects in material and workmanship for a period of ninety (90) days from the return shipping date.

Before returning any product, contact Creative Labs' Technical Support (for telephone numbers and addresses, see the Technical Support section of this document). If Creative Labs' Technical Support verifies that the product is defective, the Return Authorization Department will issue an RMA number to place on the outer package of the product. Creative Labs cannot accept any product that does not include an RMA number on the package.

Safety Information

The following sections contain notices for various countries:

CAUTION: This device is intended to be installed by the user in a CSA/TUV/UL certified/listed IBM AT or compatible personal computers in the manufacturer's defined operator access area. Check the equipment operating/installation manual and/or with the equipment manufacturer to verify/confirm if your equipment is suitable for user-installed application cards.

ATTENTION: Ce carte est destiné à être installé par l'utilisateur, dans un ordinateur compatible certifié CSA/TUV/UL ou listé IBM AT, à l'intérieur de la zone définie par le fabricant. Consulter le mode d'emploi ou le fabricant de l'appareil pour vérifier ou confirmer si l'utilisateur peut y installer lui-même des cartes périphériques.

Notice for the USA

FCC Part 15: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, this notice is not a guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try one or more of the following measures:

❏ Reorient or relocate the receiving antenna.

❏ Increase the distance between the equipment and receiver.

❏ Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.

❏ Consult the dealer or an experienced radio/TV technician.

Caution

To comply with the limits for the Class B digital device, pursuant to Part 15 of the FCC Rules, this device must be installed in computer equipment certified to comply with the Class B limits.

All cables used to connect the computer and peripherals must be shielded and grounded. Operation with non-certified computers or non-shielded cables may result in interference to radio or television reception.

Modifications

Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the device.

Notice for Canada

This apparatus complies with the Class "B" limits for radio interference as specified in the Canadian Department of Communications Radio Interference Regulations.

Cet appareil est conforme aux normes de CLASSE "B" d'interference radio tel que spécifié par le Ministère Canadien des Communications dans les règlements d'interférence radio.

Compliance

This product conforms to the following Council Directive:

❏ Directive 89/336/EEC, 92/31/EEC (EMC)

Declaration of Conformity

According to the FCC96 208 and ET95-19 documents,

Name: *Creative Labs, Inc.*

Address: *1901 McCarthy Boulevard*
Milpitas, CA. 95035
United States
Tel: (408) 428-6600

declares under its sole responsibility that the product

Trade Name: *Creative Labs*

Model Number: *DAP-0001/DS-001*

has been tested according to the FCC / CISPR22/ 85 requirements for Class B devices and found compliant with:

EMI/EMC: ANSI C63.4 1992, FCC Part 15 Subpart B

Canadian ICES-003 Class B

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesirable operation.

Ce matériel est conforme à la section 15 des régles FCC. Son Fonctionnement est soumis aux deux conditions suivantes:

1. Le matériel ne peut étre source D'interférences et
2. Doit accepter toutes les interférences reques, Y compris celles pouvant provoquer un fonctionnement indésirable.

Compliance Manager
Creative Labs, Inc.
20 October, 1999

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Introduction

The NOMAD II digital audio player is the latest exciting device from Creative's Personal Digital Entertainment (PDE) Internet solutions. NOMAD II is solid-state for clear digital audio anywhere—even during strenuous activity. You can enjoy music transferred from your computer to the Player, use NOMAD II to make and playback voice recordings, or listen to FM radio.

NOMAD II can be upgraded by downloading from the NOMAD web site at **www.nomadworld.com**.

NOMAD II Software

Your NOMAD II software and samples may vary.

NOMAD II includes the following software and samples:
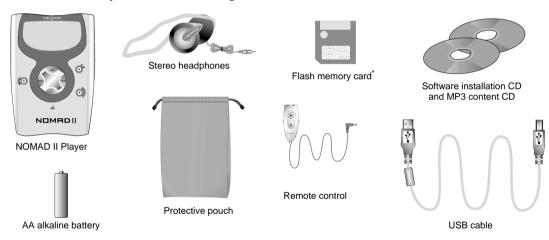
❏ NOMAD II Manager transfers data between the Player and the PC, presets FM stations, archives voice recordings, adjusts Player settings, and updates the Player.

❏ Creative Digital Audio Center by MusicMatch converts .WAV to .MP3 files or records music from your audio CDs into MP3.

❏ Creative MediaRing Talk 99 makes telephone calls from your PC to another.

❏ MP3 music

System Requirements

The minimum system requirements are:

❑ A Pentium® 200 MHz or higher PC (Pentium II or better recommended for MP3 encoding)

❑ 32 MB RAM (64 MB recommended)

❑ 12 MB free hard disk space (or more for audio content storage)

❑ SVGA graphics adapter (256 colors, 640x480 minimum)

❑ USB port

❑ CD-ROM or DVD-ROM drive with digital audio extraction support

❑ Sound Blaster® Live!™ for Environmental Audio™ effects MP3 encoding

❑ Microsoft® Windows® 98 or Windows 2000

❑ Installed mouse

❑ Recommended: Internet connection for Internet content downloading or CDDB support (any expenses incurred are the responsibility of the user)

Handling Instructions

Avoid severe impact on the Player

❑ Do not drop the Player on a solid surface or drop a heavy object on the Player.

Prevent water from entering the Player

❑ When the Player comes into contact with water, dry it immediately with a dry cloth.

❑ If the Player becomes wet, remove the battery and flash memory card. Allow the Player and components to dry completely before re-assembling.

❑ If the Player is not functioning, call Technical Support.

Storing the Player set

❑ Avoid storing NOMAD II where there is high humidity, strong magnetic fields, or high heat.

NOMAD II Player

Your NOMAD II Player includes the following items:

NOMAD II Player

AA alkaline battery

Stereo headphones

Protective pouch

Flash memory card*

Remote control

Software installation CD and MP3 content CD

USB cable

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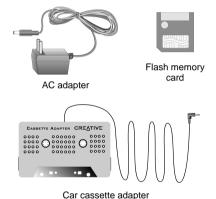
* Depending on the model you purchased, your NOMAD II Player may not include a flash memory card.

Optional accessories

Accessories for your NOMAD II Player that can be purchased separately include:

❏ Docking station
❏ USB cable
❏ Rechargeable NiMH battery
❏ AC adapter (for docking station)
❏ Flash memory card
❏ Car cassette adapter
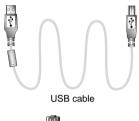
AC adapter

Flash memory card

USB cable

Rechargeable NiMH battery

Car cassette adapter

WARNING
Use only with rechargeable Creative NiMH batteries on docking station. Do not put batteries in the wrong way round or short circuit, otherwise it may explode, leak or cause personal injury.

NOMAD II

CHARGE

CREATIVE
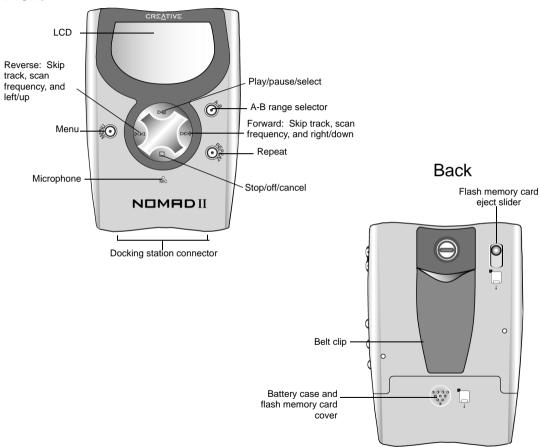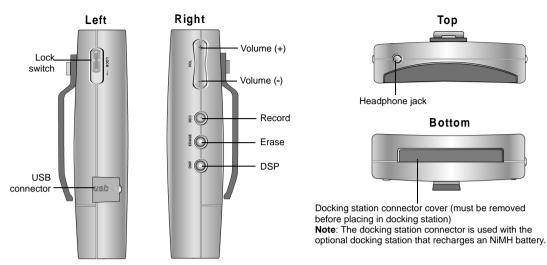
Docking station

For the latest in NOMAD II accessories, visit **www.nomadworld.com**.

Controls

Front

LCD

Reverse: Skip track, scan frequency, and left/up

Play/pause/select

A-B range selector

Menu

Forward: Skip track, scan frequency, and right/down

Repeat

Microphone

Stop/off/cancel

CREATIVE

NOMAD II

Docking station connector

Back

Flash memory card eject slider

Belt clip

Battery case and flash memory card cover

Left

Lock switch

USB connector

Right

Volume (+)

Volume (-)

Record

Erase

DSP

Top

Headphone jack

Bottom

Docking station connector cover (must be removed before placing in docking station)
Note: The docking station connector is used with the optional docking station that recharges an NiMH battery.

Remote Control

Headphone jack

Play/Pause/Select

Stop/Off/Cancel

NOMAD

Remote Control plug

Pocket clip

Reverse: Skip track, scan frequency, and left/up

LOCK switch

Forward: Skip track, scan frequency, and right/down

Volume +

Volume -

Front   **Rear**   **Left**   **Right**

2

Setting Up NOMAD II Player

Battery and Flash Memory Card

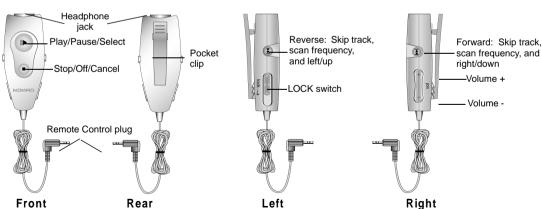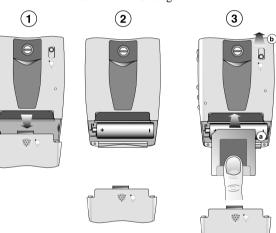MP3 files can be stored on the flash memory card and played on NOMAD II. If your NOMAD II includes a flash memory card, it is preformatted and preloaded with a "Welcome to NOMAD" MP3 song.
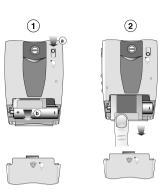
Insert the battery and flash memory card:
1. Remove the battery/flash memory card cover.
2. Insert the battery.
3. Ensure that the flash memory card (a) is in the correct position—the notched corner must be at the top left—before inserting. The eject button (b) must be in the open position.
4. Replace the battery/card cover.

To remove the flash memory card:
1. Remove the battery/card cover and push the eject button (a) down. The card is pushed out.
2. Use your thumb to slide the card (b) out.

Headphones and Remote Control

Connect the headphones and remote control to the NOMAD II Player as shown below.

The headphones are designed to be worn as shown in the figure to the right.

Your NOMAD II Player is now ready for you to listen to the sample on the flash memory card, listen to an FM radio station, or make a voice recording.

Installing the Software

Install the programs on the installation CD before running any of the applications or listening to the music on the sample CD.

To install the software:

1. Insert the Creative NOMAD II installation CD into the CD-ROM drive. If the Setup program runs automatically, go to step 4 below.
2. Click the Start button on the Windows Taskbar and click Run.
3. On the Run dialog, type **D:\CTRUN\CTRUN.EXE** (**D:** is your CD-ROM drive) and click the OK button.
4. On the Creative NOMAD II setup screen, the applications to be installed are selected. Click the Right Arrow button to begin the installation.
5. When the Creative Product Registration dialog appears, click the Next button to begin your on-line registration.

   If you want to register your NOMAD II later, press the Cancel button.
6. After completing (or cancelling) the registration, follow the instructions on-screen to continue the installation.
7. When the installation of each application is complete, you may be asked if you want to install additional applications. Complete the installation of all chosen applications before restarting your computer.
8. When prompted to restart your computer, leave the CD in the CD-ROM drive and select "Yes, I want to restart my computer now" and click the Finish button.

Registering NOMAD II

If you do not register your NOMAD II during software installation, you may complete the on-line registration at any time.

To register your NOMAD II:

1. You may start on-line registration by either of the following methods:
   ❏ Double-click the NOMAD II registration icon in the Windows Taskbar.
   ❏ Click Start on the Windows Taskbar, select Programs, Creative, Product Registration, and click on Register Creative NOMAD.
2. Follow the on-line instructions to complete the registration.

Connecting the NOMAD Player to a Computer

To download or upload files between the NOMAD II Player and your computer, the Player must be connected to the computer via the USB port.

To connect the NOMAD II Player to your computer:

1. Check that the battery is properly installed in the Player.
2. Position the computer so that you can easily reach the USB port. *Note:* The USB port may be located on your computer's front panel instead of the rear as shown.
3. Using the USB cable included with the Player, connect the rectangular connector to the USB connector on your computer.
4. Connect the square connector to NOMAD II Player. When the cable is properly connected and the computer is running, the Player LCD displays a connection diagram.

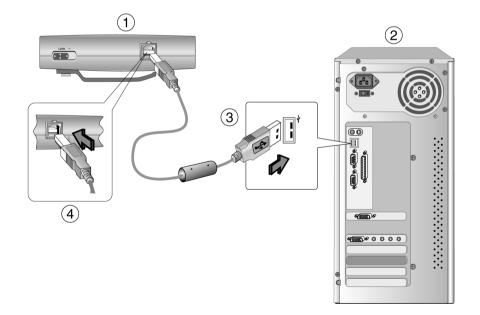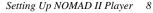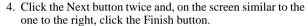You may leave your computer running while connecting the NOMAD II Player to the USB port.

The Player's USB connector is protected by a rubber flap. Pull the flap out of the connector to insert the jack.

Installing the NOMAD II Driver

Once your NOMAD II Player is properly connected, your computer displays the Add New Hardware Wizard dialog.

To install the NOMAD II driver:

1. On the Add New Hardware Wizard dialog, click the Next button.
2. Select "Search for the best driver for your device. (Recommended)" and click the Next button.
3. Clear the "Floppy disk drives" check box and select "CD-ROM drive."

4. Click the Next button twice and, on the screen similar to the one to the right, click the Finish button.
5. Click Start on the Windows Taskbar, select Settings, and click on Control Panel.
6. On the Control Panel, double-click the System icon.
7. On the System Properties dialog, click the Device Manager tab.
8. On the Device Manager tab page, click the plus sign (+) preceding Universal Serial Bus controllers. Creative NOMAD II must be included in the list.

   If the NOMAD II driver is not included, disconnect the Player from the computer. Reconnect the Player to the computer—you may want to use a different USB port, if available—and re-install.

Before you re-install the driver, *manually* remove the old driver if it is listed.

Downloading MP3 Files

You must have MP3 files on your computer in order to download them to NOMAD II Player

You can download MP3 files located on your computer to the NOMAD II Player.

To download MP3 files:

1. Connect the Player to your computer. You may connect the Player to a USB port while the computer is running.
2. Start NOMAD II Manager by clicking on the Start button on the Windows Taskbar, select Programs, select Creative, select Creative NOMAD II, and click on NOMAD II Manager.
3. On NOMAD II Manager's My Computer window (on the right), click View and browse to the folder on your computer that contains MP3 files.
4. Select the files you want to download and then click the Download button.

   When the download is complete, you can listen to a file on the Player.

See "NOMAD II Manager" on page 21 for more information on using the NOMAD II Manager.

NOMAD II Detector

NOMAD II Detector must be enabled or open in order for your computer to communicate with the Player.

NOMAD II Detector is represented by an icon placed on the Windows Taskbar. It detects the connection between the NOMAD II Player and the computer via a USB cable, and automatically runs the NOMAD II Manager.

To disable NOMAD II Detector:

1. Right-click the NOMAD II Detector icon to display the Detector menu. "Enable NOMAD II Detector" is selected by default.
2. Click Enable NOMAD II Detector to disable it and remove the icon from the Taskbar.

   To enable it, click the Start button on the Windows Taskbar, select Programs, select Creative, select Creative NOMAD II, and click on NOMAD II Detector.

Using Your NOMAD II Player

Power On/Off

If the player is idle for three minutes, it turns off automatically. You can change the Power Off time in the Settings Menu.

See "To set Power off when idle:" on page 19.

To turn the power on/off:
1. Press and hold the Play button to turn on the power.
   The NOMAD II main menu appears as shown.
2. To turn off the power, press and hold the Stop button for more than 1 second.
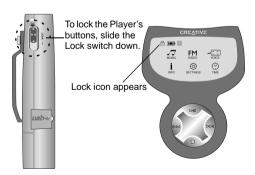
Battery indicator
Flash memory card indicator
Volume indicator
Repeat Track indicator
Lock indicator
Repeat Segment indicator
Play
Stop

Lock

The Lock switch only locks the buttons on the Player. You can still operate the Player by pressing the buttons on the remote control if the Lock switch on the remote control is not turned on.

Ensure that the Lock switch is not on before you continue.

To lock the Player's buttons, slide the Lock switch down.

Lock icon appears
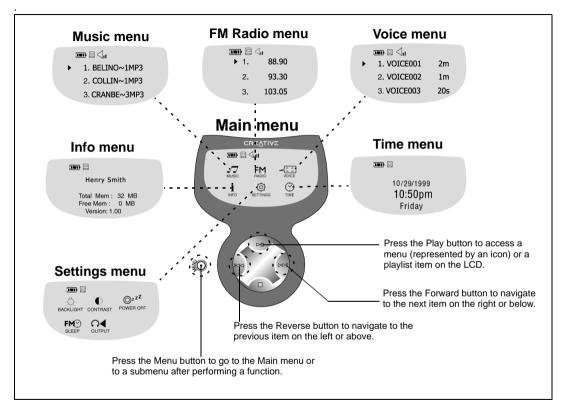
Navigating and Accessing Menus

The display on your Player may vary slightly from the examples shown.

There are six menus that control the operations of the Player. They are accessed from the Player's Main menu.

Music menu

▶ 1. BELINO~1MP3
2. COLLIN~1MP3
3. CRANBE~3MP3

FM Radio menu

▶ 1.   88.90
2.   93.30
3.   103.05

Voice menu

▶ 1. VOICE001   2m
2. VOICE002   1m
3. VOICE003   20s

Main menu

CREATIVE

MUSIC   FM RADIO   VOICE
INFO   SETTINGS   TIME

Info menu

Henry Smith

Total Mem : 32 MB
Free Mem :   0 MB
Version: 1.00

Time menu

10/29/1999
10:50pm
Friday

Settings menu

BACKLIGHT   CONTRAST   POWER OFF

FM SLEEP   OUTPUT

Press the Play button to access a menu (represented by an icon) or a playlist item on the LCD.

Press the Forward button to navigate to the next item on the right or below.

Press the Reverse button to navigate to the previous item on the left or above.

Press the Menu button to go to the Main menu or to a submenu after performing a function.

Music Menu

To access the Music menu, press the Play button when the Music icon is blinking. The Music menu appears, with the first file selected.

New audio formats can be downloaded into the NOMAD II Player when they are available. Visit **www.NOMADWorld.com** for any new releases.

To play an MP3 File:
1. On the Main menu, press the scan back/forward button to select the Music menu—the icon blinks when Music is selected.
2. On the Music menu, use the scan back/forward to select a title.
3. Press the Play button to begin playing the MP3 file.

    Press the Play button again to pause. During Pause, the Pause icon appears.
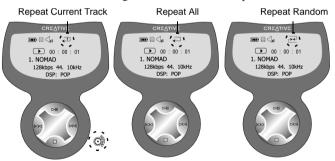
    During playback, the Play icon, time elapsed, song order, the song title, artist, bit rate, sampling rate, and DSP mode are displayed on the LCD.
4. Press the Stop button to stop the playback. If held down for longer than one second, the power shuts off.

To repeat MP3 playback:
1. Press the Repeat button and then select either Repeat Current Track, Repeat All, or Repeat Random which appear in order.

    To cancel the operation, press the Repeat button until the Repeat indicator disappears from the LCD.

Repeat Current Track   Repeat All   Repeat Random

To repeat a section of a file continuously:

1. Press the A-B button when a file is playing to mark the point from which you want the section to start; press the button again at the point at which you want the section to end.

2. To cancel the operation, press the A-B button again. The A-B indicator disappears from the LCD and the file continues playing from the point at which the section ends.

To use the DSP Equalizer:

1. Press the DSP button to select the Equalizer mode. Then press repeatedly to select an option among Normal, User, Pop, Rock, Classic, and Jazz that appears in turn.
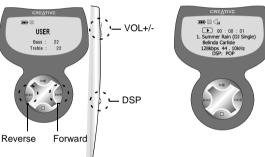
Only the User option allows you to customize Bass and Treble.
To set either level, press the Forward or Reverse button to select the desired level and then press the VOL+ or VOL- to increase or decrease the level.

VOL+/-

DSP

Reverse   Forward
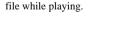
To erase an MP3 file:

1. Press the Menu button to go to the Music menu.
2. Select the track using the Forward or Reverse button.
3. Press the Erase button. A confirmation message appears on the LCD.
   Press the Play (Select) button to erase.
4. To cancel, press any button other than the Play button. Or, do not press any button for three seconds.
5. When the action is cancelled, it returns to the Music menu.

You can also delete an MP3 file while playing.

Erase

FM Radio

To open the FM Radio menu:
1. To go to FM Radio menu, press the Play button when the FM Radio icon is blinking. The Preset Channel menu appears, with Channel 1 selected.

All the Preset Channels are tuned to 87.5 KHz when you first open the FM Radio menu.

Use NOMAD II Manager's Settings option to edit the Preset Channels easily. For details, refer to online Help.

To listen to the FM radio:
1. On the Main menu, press the Forward button to select FM—the icon blinks when selected.
2. Press the Play button to display the list of preset FM frequencies.
   Press the Play button again or the Stop button to go to the next or previous Preset Channel.
3. Press and hold the Forward button to scan for an FM radio station.

You can change the Radio sleep time on the Settings menu.

CREATIVE

▶ 1.   88.90
   2.   93.30
   3.   95.00

Select

Navigate up (Reverse)

Navigate down (Forward)

CREATIVE

FM STEREO   SLEEP: 30
93.30
(01)

- Stereo
- Mono
- None (no signal received)

Preset Channel Number

The Player switches off automatically after a certain time (for example, 30 minutes). If "Sleep" does not appear on the LCD, the player will not switch off automatically.

To preset FM radio stations:

1. Press and hold the Forward button or Reverse button to scan for FM radio stations automatically. Or, press the Forward or Reverse button once to advance 0.05 KHz every time to scan for stations manually.

You can scan for available FM stations in your area by holding down the Record button while the list of presets is displayed.

2. Press the Rec button. The original Preset Channel appears.
3. Press the Forward or Reverse button to change the Preset Channel number.
4. Press the Play or Rec button to assign the tuned radio frequency to the Preset Channel.
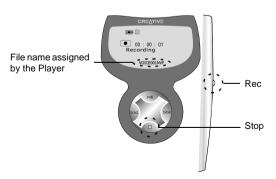
To check whether the Preset Channel is assigned correctly, press the Menu button to display the Preset Channel playlist.

Voice Menu

To make a voice recording:

1. Press the Menu button to display the Main menu.
2. Press the Forward button to select Voice—the Voice icon blinks when selected.
3. Press the Play button to display the Voice menu.
4. Press and hold the Rec button to start the recording. The recording icon, time elapsed, the word "Recording," and the file name appear on the LCD.
5. Press the Stop button to stop recording.

When the memory is full, a message appears and recording stops automatically.

File name assigned by the Player

Rec

Stop

To play a voice recording:
1. Press the Play button to play back the current track. Press it again to pause. To resume the playback of the current track, press the Play button.

To erase a voice recording:
1. Select the desired track using the Forward or Reverse button.
2. After selecting a track, press the Erase button.
   A message for confirmation appears on the LCD.
3. Press the Play button to erase.
4. To cancel the operation, press any button other than the Play button or do not press any button for three seconds.
5. When the action is cancelled, it returns to the previous state.

Each of the track numbers following the erased one decreases by one.

Information Menu

To open the Information menu:
1. Press the Play button when the INFO icon is blinking.
   The Info menu appears with the firmware date, the total memory, and free memory of the flash memory card.
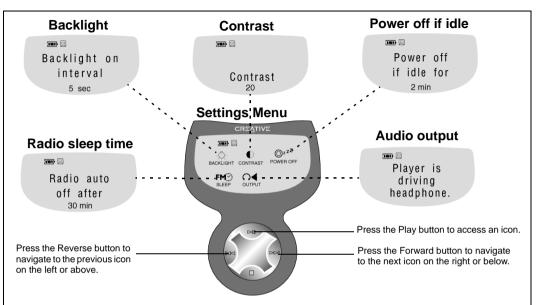
Settings Menu

Backlight

Backlight on interval
5 sec

Contrast

Contrast
20

Power off if idle

Power off if idle for
2 min

Settings Menu

CREATIVE

BACKLIGHT   CONTRAST   POWER OFF

FM   OUTPUT
SLEEP

Radio sleep time

Radio auto off after
30 min

Audio output

Player is driving headphone.

Press the Play button to access an icon.

Press the Forward button to navigate to the next icon on the right or below.

Press the Reverse button to navigate to the previous icon on the left or above.
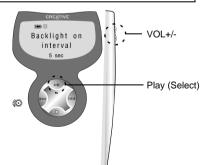
To set Backlight on interval:

1. Navigate to the Backlight icon and then press the Play button.
2. Press the VOL+ or VOL- buttons on the player or the Forward or Reverse buttons on the remote control to increase or decrease the duration the backlight is activated on the LCD.
3. Press the Play button to save the new settings. The word "Saved" appears on the LCD and the Settings Menu appears.

The maximum duration is 12 seconds.

CREATIVE

Backlight on interval
5 sec

VOL+/-

Play (Select)

To set Contrast:
1. Navigate to the Contrast icon and then press the Play button.
2. Press the VOL+ or VOL- buttons on the player or the Forward or Reverse buttons on the remote control to increase or decrease the contrast level.
3. Press the Play button to save the selected setting. "Saved" appears on the LCD and the Settings Menu appears.

To set Power off when idle:
1. Navigate to the Power Off icon and press the Play button.
2. Press the VOL+ or VOL- buttons on the player or the Forward or Reverse buttons on the remote control to increase or decrease the time after which the player will switch off if there are no operations.
3. Press the Play button to save the selected setting. "Saved" appears on the LCD and the Settings Menu appears.
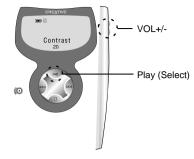
To set Radio sleep time:
1. Navigate to the FM Sleep icon and then press the Play button.
2. Press the VOL+ or VOL- buttons on the player or the Forward or Reverse buttons on the remote control to increase or decrease the time after which the radio automatically switches off.
3. Press the Play button to save the selected setting. "Saved" appears on the LCD and the Settings Menu appears.

The maximum time before the player switches off is three hours.
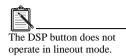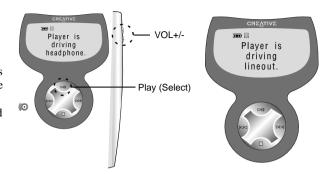
To set Audio output:

1. Navigate to the Output icon and then press the Play button.
2. Press the VOL+ or VOL- buttons on the player or the Forward or Reverse buttons on the remote control to select headphone output or line output for audio.
3. Press the Play button to save the selected output.
   "Saved" appears on the LCD and the Settings Menu appears.

VOL+/-

Play (Select)

Player is driving headphone.

Player is driving lineout.
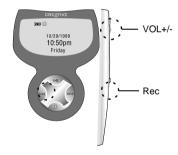
Time Menu

To open the Time menu:

1. Press the Play button when the Time icon is blinking.
   The menu appears with the current date, time and day.

To set the date, time, and day:

1. Press and hold the Rec button to select setting mode.
   The Hour value blinks, ready to be set.
2. Press the VOL+ or VOL- buttons on the player to increase or decrease the Hour value.
3. Press the Forward or Reverse button to shift to the Minute, AM/PM, Day, and Date in order and repeat step 2 to adjust the values.
4. Press the Play button when the setting is completed.

VOL+/-

Rec

10/29/1999
10:50pm
Friday

Remember to visit **www.NOMADWorld.com** for the latest updates and enhancements for your NOMAD II Player.

You may also enjoy the new LAVA software from Creative Labs. For more information, visit **www.lava.com** on the Internet.

Using Your NOMAD II Software
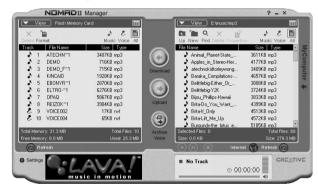
NOMAD II Manager

Creative NOMAD II Manager allows you to manage the contents on your NOMAD II Player:

❏ Play MP3 files directly.

❏ View and manage the memory contents of the NOMAD II Player.

❏ Download MP3 and other files to the NOMAD II Player.

❏ Upload the memory contents (except MP3 files) to the computer.

To open NOMAD II Manager:

1. Connect your NOMAD II Player to your computer. (See "Connecting the NOMAD Player to a Computer" on page 8.)

2. You can start NOMAD II Manager by either of the following methods:
   - Double-click on the NOMAD II Manager icon on the Windows Desktop.
   - Click Start on the Windows Taskbar, select Programs, select Creative, select Creative NOMAD II, and click on NOMAD II Manager.

To configure the Manager view:

1. Click the Configure View icon ▦ for either the Player window or the My Computer window to display the Configure Memory View window.

2. Select the fields to be displayed in the window by placing a check in each corresponding box.

3. Click the OK button when the fields are selected.

To format the flash memory card:
1. Select the icon for the flash memory card:
   - Open the View menu by clicking on the arrow at the top left of the Manager.
   - Click on Flash Memory Card.
2. With the Flash Memory Card contents displayed, click the Format icon.

Formatting a flash memory card deletes any existing files.

If the flash memory card is already formatted, you can add or delete files to the card.

If you change the flash memory card, click Refresh [⟳ Refresh] to display the file information for the new card.

To check the status of the flash memory card, click the View box at the top of the Player window and click Information.

Managing Files

You can use the NOMAD II Manager to transfer files between the Player and your computer, add or delete files, set FM radio stations, connect to the NOMAD web site, and upgrade the Player's firmware.

Transferring Files

To copy files from your hard disk (or other sources) to the Player's memory:
1. Use the View button to locate the file on your hard disk (or other sources) to copy to the Player.
2. Select the file in the My Computer window to be copied to the Player's flash memory card.
3. Click the Download button.

To transfer files from the Player to your hard disk:
1. In the My Computer window, open the folder to which you want to copy the file from the Player.
2. Select the file in the Player that you want to copy to your PC's hard disk (or other destination).
3. Click the Upload button on the NOMAD II Player window to copy the file to your PC.

Deleting Files

To delete files from NOMAD II Player:
1. In the NOMAD II Player window, select the file to be deleted.
2. Click on the Delete icon to permanently remove the file from NOMAD II Player.

To delete files from your computer's hard disk:
1. In the My Computer windows, select the file to be deleted.
2. Click on the Delete icon to permanently remove the file from your computer's hard disk. You are asked to confirm the deletion.

Setting FM Radio Stations

To set FM radio stations:
1. In the NOMAD II window, click the Settings button ⚙ Settings.
2. In the Settings window, click the Radio Presets tab.
3. Type the frequency in the box; for example, 94.45. Click OK.
   You can set as many as 32 FM radio presets.

Presets can also be set and modified on the Player display (see "To preset FM radio stations:" on page 16).

For information on FM stations and a list of frequencies for the stations in your area, visit **wmbr.mit.edu/stations/statemap.html** on the Internet.

Connecting to the NOMAD Web Site

To connect to the NOMAD web site:
1. Connect to the Internet.
2. If you have a NOMADWorld banner displayed at the bottom of the Player window, click on it.
   Or, click on the Internet button Internet 🌐 to make your connection to the NOMAD web site.
   Or, type the URL address into your browser's Location box and press the ENTER key.

You must have a Internet service provider in order to make the Internet connection.

Upgrading the Player's Firmware

To upgrade the Player:
1. Connect to the Internet.
2. Navigate to **www.NOMADWorld.com**.
3. On the NOMADWorld home page, click on Software Downloads.
4. Under Downloads, look for an upgrade to NOMAD II Player (or Manager). Follow the instructions on the web site to download the upgrade file.
5. Open the NOMAD II Manager menu by clicking on the name at the top of the Player window.
6. On the menu, click on Download Firmware.
7. On the Choose a File dialog, select the folder into which the firmware upgrade was downloaded.
8. When the upgrade file is located, select it and click the Open button. A box opens on your computer screen while the upgrade is taking place; a series of messages appear on the Player display.
9. Click the OK button when the upgrade is complete.

Personalizing NOMAD II

You can personalize your version of NOMAD II by entering your name in the NOMAD II Manager.

To personalize your NOMAD II:

1. In NOMAD II Manager's Player window, click the Settings button to configure the NOMAD II Player.
2. On the General tab page, type in your name.

Creative Digital Audio Center

This is an introduction to Creative DAC. For additional information, use the Help button to display the online documentation.

The Creative Digital Audio Center (DAC) by MusicMatch™ is the world's first integrated CD player, digital music encoder and player, and digital Music Library. Your Creative DAC can digitally record and encode MP3 files from your CD library in a single step, creating CD-quality audio files at speeds limited only by the speed of your CD-ROM drive.

In addition to recording from CDs, you can record from other sources such as vinyl disks (LPs) and cassettes with the Line-In feature. You can download individual titles from the web, stream music files from the Internet, or add existing digital music files to your Music Library.

To open MusicMatch:

1. Click Start on the Taskbar, select Creative, and click on Creative Digital Audio Center.

   Alternatively, on the Windows Desktop, double-click the Creative Digital Audio Center icon

DAC Player

The Creative DAC Player allows you to create Playlists of music that can be played through your PC speakers or directed to other output devices attached to your PC.

The DAC Player can play any title in the Playlist. Simply select a title; then, use the play controls below the left window, or double-click the title in the Playlist. The left window gives the status of the title currently being played including time elapsed and total time, and the name of the artist and the song title.

Volume Control is found to the right of the Playback buttons. Click and drag the volume button to adjust playback volume.

Equalizer

The DAC Equalizer allows you to customize the playback to suit your personal listening taste. To use the Equalizer, click on Options, select Player, and click on MP3 Equalizer; the Equalizer is off by default. The Equalizer is comprised of ten volume settings for frequency ranges from 60 Hz (low bass) to 16 KHz (high treble). The Equalizer must be enabled for the settings to be in effect.

DAC Music Library

The Music Library lists the titles available from sources such as your computer's hard disk drive, CD-ROM drive, and other input devices as well as the Internet. You may define more than one Music Library by saving each under a different name.

To display the Music Library, click on the Library button 🔘. Alternatively, click on the Options button, select View on the menu, and click on Show Music Library. Click Add to browse for music titles.
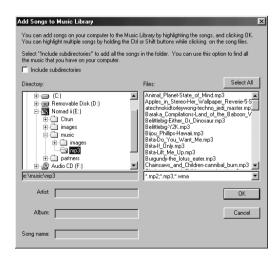
Add Files to the Music Library

To add titles to the Music Library, click Add at the top of the Music Library and browse for titles.

You can add previously downloaded files—MP2, MP3, or RealAudio formats—to your Music Library. Files are not encrypted and can be added individually, or as a group by holding down the control button (CTRL); add a sequence of titles by holding down the SHIFT key and selecting the first and last titles.

Once a title or set of titles is recorded, they appear in your Music Library. Titles, artist name, and album title are included (if available) during the recording process. Choose Tag from the Music Library to assign other sorting characteristics to your tracks for use when creating your Playlists.

Playlists

You may define more than one Playlist by saving each under a different name. The order in which you enter titles in a Playlist determines the order in which they are played (Normal Order). You may choose to play the titles in Album/Track Order (original order on the album), or Shuffled Order (random).

Automatic Playlists

Auto DJ assists you in creating Playlists from the Music Library.

To create an Automatic Playlist:
1. Click Auto DJ on the DAC Music Library, or from the Options menu, select File, and click on Auto-Create New Playlist.
2. On the dialog, enter the duration for the Playlist.
3. Choose the criteria for the titles to be included in the Playlist. All titles included in the Music Library are listed.
4. At any point, click the Preview button for a summary of the titles you have selected.
5. When you are satisfied with the selections, press the Get Tracks button. The tracks are added to the Playlist on the DAC Player.
6. You may save the Playlist by clicking Save on the Playlist window. Give the Playlist a name and press Save.

Manual Playlists

You can create a manual Playlist by adding titles to a new Playlist by either of the following:
❑ Double click on a title
❑ Click and drag the track title to the Playlist screen at the top right hand corner

You may also add titles to the Playlist by using the drag-and-drop functionality. Select a title(s) in the Music Library and drag-and-drop to the Playlist. You can change the order of the titles in the Playlist by drag-and-drop.

When considering a title for a Playlist, highlight the title in the Music Library and click the arrow to its left to play the title. The title is played but not added to the Playlist. You can double-click, or click and drag anywhere on the highlighted area to add the track to your Playlist.

If you are creating a Playlist and do not have enough track information to recognize the title, highlight the track and click on the track indicator micro arrow. This previews the title for you before adding it to the Playlist

To add multiple titles at one time to the Playlist, either hold down the SHIFT key and highlight tracks in sequence, or hold down the CONTROL (Ctrl) key and select individual titles throughout the list. Then, right click and select Add, or simply drag the selected tracks to the Playlist screen.

To delete titles from the Playlist, highlight the track and select Delete Track from either Edit menu, or hit the delete key on your keyboard.

DAC Recorder

The DAC Recorder allows you to convert and record unencrypted titles in MP3 compression format, or as uncompressed WAV files. The Recorder uses titles played from an audio CD on your computer's CD-ROM drive, or input through the Line In or Microphone In jacks on your audio card.

To display the Recorder:

1. Click the Record button on the Player controls.

   Or, click Options at the top of the Player window and select View on the menu. Click on Show Recorder.

Recording from an Audio CD

To record from an audio CD:

1. With the Recorder displayed, insert an audio CD into your CD-ROM drive.
2. If you are connected to the Internet, CDDB returns the information associated with your CD, if available. If not available, you can enter it manually. If not entered, the titles are referred to generically, for example, as Track 1, Track 2, etc.
3. On the DAC Player, click on Options, select Recorder, and click on Settings. Or, right-click on the gray areas of the Recorder to display the Options menu.
4. When the settings are correct, click OK to close the Settings dialog.
5. On the Recorder, select the titles you want to record or click All at the top of the list to record all of the titles on the audio CD.
6. Click the Start button to begin recording. The Recorder window indicates the progress of each title that is being recorded.

   When a title has been recorded successfully, a green box is placed in the list next to the title and the title is included in the Music Library.

Recording from Other Devices

You may record from sources connected to your computer through your audio card. For example, a tape recorder connected to the Line In jack found on most audio cards, or a microphone attached to a Microphone In jack.

The information shown in the DAC Recorder window may change slightly; the recording process remains as described for an audio CD.

Content CD

NOMAD II includes a CONTENT CD that offers sample MP3 files for downloading, manipulating, and enjoying while you are learning to use the NOMAD II Player, NOMAD II Manager, and Creative Digital Audio Center.

To open the Content CD:

1. With Windows 98 running, place the Content CD in the CD-ROM drive. The NOMAD II software opens your web browser and displays the NOMAD II home page.

   The NOMAD II home page describes the CD's contents and presents the URL for the NOMAD II web site.

   If you are connected to the Internet, click on **www.NOMADWorld.com**, to access the NOMAD II web site.

2. On the NOMAD II Contents CD home screen, click Music Catalog to display the directory of music genres represented on the Content CD.

3. Click on one of the music types displayed to open a listing of the selections available on the Content CD for that genre.

4. Select Intro to return to the home screen and select Partners to display a screen listing the web sites that have contributed titles to the Content CD.

   Click on any of the names listed to access the web site.

Microsoft's Internet Explorer 4.0 (or later) is required to properly view the Content CD.

Environmental Audio

Creative Environmental Audio is available with NOMAD II if you have a Creative Sound Blaster Live! audio card installed.

In the Playlist, highlight the title to which you want to add Environmental Audio effects and right-click on it. If you add Environmental Audio effects, the title in the Playlist is preceded by "EA."

You may also use Environmental Audio effects when recording a title from an input source, such as a CD-ROM. To include effects, display the Recorder Settings dialog and enable CD Recording Mode, Analog; and choose an effect. When you include the effect with the recording, it remains in the file; you must re-record the title to remove the effect.

MP3 Primer

What is MP3?

MP3 is an acronym for Moving Picture Experts Group (MPEG) Layer 3—an audio data compression standard that can reduce the size of digital sound files by a 12:1 ratio with virtually no loss in quality. It is an efficient method of storing high-quality music or other audio content on your computer.

MP3 files can be very small—compared to the size of a commercial CD audio file—yet retain high sound quality. MP3 files usually have the file name extension .MP3, and can be downloaded from the Internet, or can be legally made for personal use from audio CDs that you purchase.

MP3 Conversion

Extracting from an Audio CD

⚠️

It is illegal to encode MP3 files for trade or sale unless you have the expressed and explicit permission of the copyright holder(s).

Audio CD *extraction* is the first phase in the MP3 conversion process. *Extraction* is the reading of data from an audio CD and storing it temporarily on your hard drive. The audio data is extracted from the CD file by means of an application (commonly called a *ripper*) and copied to a file on your computer's hard disk drive.

The time required for extracting data from an audio CD depends on the speed of the CD-ROM drive. The speed ratings commonly seen on CD-ROM drives—such as 8X, 24X, etc.—refers to the speed at which it can read data. Your particular drive may be fast for data, but slow for audio.

Another factor is the condition of the CD, such as defects or scratches on its surface. When playing the audio CD in a CD-ROM drive, the data lost due to error is negligible. But when data is read incorrectly and put through the MP3 encoding phase, the distortion is highly noticeable. To avoid distortion, the audio CD extraction software may read the data two or three times to make sure it is read correctly. This error-checking feature is an option in most audio CD data extraction software—be sure error-checking is enabled in your audio CD extraction software.
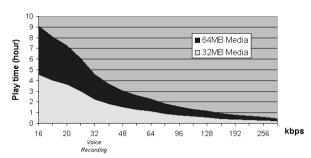
Encoding to MP3

⚠️

It is illegal to encode MP3 files for trade or sale unless you have the expressed and explicit permission of the copyright holder(s).

The data extracted from an audio CD is usually in .WAV format. The encoder reads .WAV data and outputs MP3 data. These data are put into an MP3 file.

MP3 encoding is the compressing of data by transforming it into the frequency domain. MP3 encoding/compression is quality-loss compression and the amount of loss (of quality) is dependent upon the sampling rate of the output and the bit rate of the output. The higher the sampling and bit rates used, the better the quality of the sound. This leads to more data storage and memory requirements. The amount of memory required for the NOMAD II player is proportional to audio playback time.

For optimal quality, set your encoding bit rate at 128 kbps when you create MP3 files from audio CDs using Creative Digital Audio Center.

Play Time vs Encoded Bit-Rate

MP3 Files on the Internet

Through Internet web sites, you can download MP3 files either with or without charge, and get information about the latest techniques and software related with MP3.

Examples of web sites with MP3 content are:

- ❏ NOMAD World   **http://www.NOMADWorld.com**
- ❏ Amp3   **http://www.Amp3.com**
- ❏ ArtistOne, Inc.   **http://www.ArtistOne.com**
- ❏ Big Heavy World   **http://www.BigHeavyWorld.com**
- ❏ Cductive   **http://www.Cductive.com**
- ❏ EMusic   **http://www.EMusic.com**
- ❏ Epitonic   **http://www.Epitonic.com**
- ❏ Sound Click   **http://www.SoundClick.com**
- ❏ The Digital Music Co.   **http://www.TDMCINC.com**

Technical Specifications

NOMAD II Player (DAP-0001)

Size (W x H x D)/ Weight
- ❏ 65 x 93 x 21 mm / 88g (without battery)

Memory
Type of removable memory
- ❏ 1 x SmartMedia™ slot

Interface
- ❏ USB (using standard USB cable or via optional docking station)

LCD Display
- ❏ 132 x 64 bitmapped backlit

Standard Playback Usage
- ❏ 1 x AA Alkaline
- ❏ 8-10 hours for MP3/voice playback

Signal to Noise Ratio
- ❏ 95 dB

Frequency Response
- ❏ 20 Hz - 20 KHz

Maximum Output
- ❏ 5-7 mW

Harmonic Distortion Output
- ❏ 0.05% at 1 khz with 32 ohm load

DSP

❑ Five presets and one user setting: bass and treble control

Audio Codec support

❑ MPEG Audio Layer 3 (MP3) and future formats[*]

Firmware

❑ Flash based. User upgradable*

SDMI Compliance

❑ Hardware ready*

FM

❑ 87.5 to 108mhz

Voice Recording

❑ G721 ADPCM encoding at 32kbps. Up to 4 hour recording on 64MB SmartMedia.

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[*] Future audio codec support, firmware upgrades, and SDMI compliance will be available on **www.NOMADWorld.com**

C

Troubleshooting

My NOMAD II Player is not detected automatically when I connect it to my computer.

Cause

Your Player may not be connected correctly to the computer.

Solution

Check the connections between the Player and your computer (see"Connecting the NOMAD Player to a Computer" on page 8).

I can't successfully make a voice recording with the NOMAD II Player
or
My MP3 files don't play.

Cause

The flash memory card in your Player may have been incompletely or incorrectly formatted.

Solution

Reformat the flash memory card using NOMAD II Manager.

The NOMAD II Manager takes a long time to play large voice recordings.

Cause

The Manager takes some time to prepare the voice recording for playback.

Solution

You can wait for the Manager to prepare the file or you can convert the voice recording file to a .WAV file. The .WAV file is larger than the original voice recording file but will begin to play quicker.

To covert the voice recording to a .WAV file, locate the file with Windows Explorer, right-click the file name, and, in the menu, select "Convert to WAV."

The Player isn't able to read the flash memory card formatted with Media Card reader/writer.

Cause

NOMAD II only supports Solid State Floppy Disc Card (SSFDC) format (FAT12).

Windows 98 detects the Media Card reader/writer as an external removable drive in Windows Explorer. You can only format the flash memory card into FAT16 format with the Media Card reader/writer and NOMAD II is unable to recognize the FAT16 format.

Solution

To format the flash memory card, you need to obtain a software utility from the Media Card reader/writer vendor that supports SSFDC format (FAT12).

My computer doesn't recognize the NOMAD II Player when it's connected.

Cause

The Player may not be correctly connected or the drivers may not be correctly installed on your computer.

Solution

Check the connections (see "Connecting the NOMAD Player to a Computer" on page 8) between the Player and your computer.

Check the driver installation by clicking Start on the Windows Taskbar, select Settings, and click on Control Panel. On the Control Panel, double-click the System icon. Click the Device Manager tab, scroll toward the bottom of the Device Manager window to locate Universal Serial Bus Controller, and click on the plus (+) sign next to the icon. Creative NOMAD II must be listed.

If it is not listed or there is an exclamation point on its icon, re-install the NOMAD II drivers (see "Installing the NOMAD II Driver" on page 9).